

Title (en)

Polymer electrolyte for a lithium secondary battery

Title (de)

Polymerelektrolyt für sekundäre Lithiumbatterien

Title (fr)

Électrolyte polymère pour une batterie secondaire au lithium

Publication

EP 1715542 A1 20061025 (EN)

Application

EP 06112896 A 20060421

Priority

KR 20050033084 A 20050421

Abstract (en)

The invention relates to a polymer electrolyte for a lithium secondary battery. The polymer electrolyte comprises: a non-aqueous organic solvent; a lithium salt; and a polymer being obtained by polymerization of at least one monomer represented by Formula 1: A - polyesterpolyol - B wherein the polyesterpolyol is being obtained by condensation of at least one alcohol having from 2 to 6 OH groups and at least one dicarboxylic acid, the polyesterpolyol having a weight average molecular weight ranging from about 100 to about 10,000,000, and each of A and B are linked to terminal OH groups of the polyesterpolyol, each of A and B being selected from the group consisting of CH₂=CR-C(=O)-, CH₂=CR-O-CH₂-, CH₂=CR-, CH₂=CR-O-C(=O)-, CH₂=CH-CH₂-O-, CH₂=CH-S(=O)₂-, and CH₂=CR-C(=O)-O-CH₂-CH₂-NH-C(=O)-, wherein R is selected from the group consisting of C₁ to C₁₀ hydrocarbons and C₆ to C₁₀ aromatic hydrocarbons.

IPC 8 full level

H01M 4/02 (2006.01); **H01M 4/36** (2006.01); **H01M 6/22** (2006.01); **H01M 10/05** (2010.01); **H01M 10/052** (2010.01); **H01M 10/0525** (2010.01); **H01M 10/0565** (2010.01)

CPC (source: EP KR US)

C08G 63/21 (2013.01 - EP US); **C08G 63/91** (2013.01 - EP US); **H01M 4/02** (2013.01 - KR); **H01M 10/05** (2013.01 - KR); **H01M 10/0525** (2013.01 - EP US); **H01M 10/0565** (2013.01 - EP US); **H01M 4/131** (2013.01 - EP US); **H01M 4/133** (2013.01 - EP US); **H01M 4/525** (2013.01 - EP US); **H01M 2300/0082** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)

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Designated contracting state (EPC)

DE FI FR GB

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1715542 A1 20061025; **EP 1715542 B1 20080910**; CN 1855604 A 20061101; CN 1855604 B 20100512; DE 602006002640 D1 20081023; JP 2006302885 A 20061102; JP 4955295 B2 20120620; KR 100759377 B1 20070919; KR 20060110635 A 20061025; US 2006240326 A1 20061026; US 7745053 B2 20100629

DOCDB simple family (application)

EP 06112896 A 20060421; CN 200610072479 A 20060417; DE 602006002640 T 20060421; JP 2006105448 A 20060406; KR 20050033084 A 20050421; US 40677306 A 20060418